

Title (en)
CUMENE PRODUCTION WITH HIGH SELECTIVITY

Title (de)
CUMOLHERSTELLUNG MIT HOHER SELEKTIVITÄT

Title (fr)
PRODUCTION DE CUMÈNE À UNE SÉLECTIVITÉ ÉLEVÉE

Publication
EP 2552865 B1 20190508 (EN)

Application
EP 11763237 A 20110323

Priority

- US 75113210 A 20100331
- US 2011029552 W 20110323

Abstract (en)
[origin: US2011245558A1] Cumene production methods are disclosed, based on the alkylation of benzene with propylene, in which byproducts of the alkylation reaction are advantageously reduced to achieve a high cumene selectivity. This may be attained by (i) reducing the portion of the total alkylation effluent that is recycled, after cooling, to the alkylation reaction zone for quenching or direct heat exchange and/or (ii) reducing the benzene:propylene molar ratio of the alkylation feedstock. To manage the temperature differential across catalyst bed(s) in the alkylation reaction zone, indirect heat exchange may be used to remove heat.

IPC 8 full level
C07C 2/66 (2006.01); **B01J 29/70** (2006.01); **C07C 15/085** (2006.01)

CPC (source: EP KR US)
B01J 29/70 (2013.01 - KR); **C07C 2/66** (2013.01 - EP KR US); **C07C 6/126** (2013.01 - EP US); **C07C 15/085** (2013.01 - KR); **C07C 2529/08** (2013.01 - EP US); **C07C 2529/70** (2013.01 - EP US); **Y02P 20/52** (2015.11 - EP US)

C-Set (source: EP US)
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